

INTERNATIONAL SEARCH REPORT

International Publication No

PCT/D/02934

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F42B7/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F42B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 341 543 A (BRENNEKE WILHELM KG) 15 November 1989 (1989-11-15) cited in the application abstract column 1, line 1-5 column 2, line 43-55 column 3, line 41-56 figures 1,2,4-7	1,3
A	DE 41 37 315 A (BRENNEKE WILHELM KG) 19 May 1993 (1993-05-19) column 1, line 5-8 column 2, line 7-10,28,29 figure 1	1

-/--

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

27 January 2004

Date of mailing of the international search report

05/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Authorized officer

Manier R

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International Publication No
PCT/D/8/02934

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>BE 866 822 A (FABRIQUE NATIONALE HERSTAL) 9 November 1978 (1978-11-09) page 3, line 8-20,27 figures 1,2</p>	1

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Publication No

PCT/DE93/02934

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0341543	A	15-11-1989	DE 3815738 A1	16-11-1989
			DE 58900018 D1	22-11-1990
			EP 0341543 A1	15-11-1989
			US 4913056 A	03-04-1990
DE 4137315	A	19-05-1993	DE 4137315 A1	19-05-1993
			CA 2082762 A1	14-05-1993
BE 866822	A	09-11-1978	BE 866822 A1	09-11-1978

BEST AVAILABLE COPY